

[54] PROCESS FOR THE PREPARATION OF POLYSACCHARIDE 9

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[56] References Cited

U.S. PATENT DOCUMENTS

3,406,114 10/1968 Goren 195/31 P X
3,960,832 6/1976 Kung et al. 195/31 P X
3,988,313 10/1976 Bouniot 195/31 P X

OTHER PUBLICATIONS

Evelergh, "Microbial Monosaccharides and Polysac-

charides", *Handbook of Microbiology*, vol. 2, CRC Press, Cleveland, Ohio, Laskin, et al., ed. (1973), pp. 95-96.

Williams, et al., "The Production of an Extracellular Polysaccharide by a *Pseudomonas*-Type Microorganism", *J. Ger. Microbiol.*, vol. 77 (1973) XII.

Williams, et al., "Exopolysaccharide Production by *Pseudomonas PBI* in Batch and Continuous Culture: The Effect of Growth Conditions", *J. App. Chem. Biotech.*, vol. 26 (1976), pp. 326-327.

Williams, et al., "Exopolysaccharide Production by *Pseudomonans WCIB 11264* Grown in Batch Culture", *J. Gen. Micro.*, vol. 102 (1977), pp. 13-21.

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[57]

ABSTRACT

A polysaccharide processing useful flow and gel-forming properties is prepared by cultivation of *Pseudomonas* sp NCIB 11264 (ATCC 31260). The polysaccharide, which readily can be produced in up to 75% yield by continuous culture, possesses properties which are similar to those of xanthan and other gums.

15 Claims, No Drawings